MGTQVSQATSQPINFQVQKDGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWKEYKFYNANNQELATTVV
NDNKKADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAKPNNVKPVQPKPAQPKTPT
EQTKPVQPKVEKVKPTVTTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTVKTAQTAQEQNKVQTPVKDVATAKSES
NNQAVSDNKSQQTNKVTKHNETPKQASKAKELPKT

FIG. 1

MGTQVSQATSQPINFQVQKDGSSEKSHMDDYMQHPGKVIKQNNKYYFQAVLNNASFWKEYKFYNANNQELATTVV
NDDKKADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAKPNNVKPVQPKPAQPKTPT
EQTKPVQPKVEKVKPAVTAPSKNENRQTTKVVSSEATKDQSQTQSARTVKTTQTAQDQNKVQTPVKDVATAKSES
NNQAVSDNKSQQTNKVTKQNEVHKQGPSKDSKAKELPKT

FIG. 2

```
SEQ 3:    ----------------------------------------------------------------
SEQ 4:    ----------------------------------------------------------------
SEQ 5:    ----------------------------------------------------------------
SEQ 6:    MHHHHHHSSGLVPRGSGMKETAAAKFERQHMDSPDLGTDDDDKAMGTKHYLNSKYQSEQR
SEQ 7:    --------------------------------------------MTKHYLNSKYQSEQR
SEQ 8:    --------------------------------------------MTKHYLNSKYQSEQR
SEQ 9:    --------------------------------------------MTKHYLNSKYQSEQR


SEQ 3:    --------------------MGSSHHHHHHSSGLVPRGSHMGTQVSQATSQPINFQVQK
SEQ 4:    --------------------MGSSHHHHHHSSGLVPRGSHMGTQVSQATSQPINFQVQK
SEQ 5:    ------------------------------------MGTQVSQATSQPINFQVQK
SEQ 6:    SSAMKKITMGTASIILGSLVYIGADSQQVNAATEATNATNNQSTQVSQATSQPINFQVQK
SEQ 7:    SSAMKKITMGTASIILGSLVYIGADSQQVNAATEATNATNNQSTQVSQATSQPINFQVQK
SEQ 8:    SSAMKKITMGTASIILGSLVYIGADSQQVNAATEATNATNNQSTQVSQATSQPINFQVQK
SEQ 9:    SSAMKKITMGTASIILGSLVYIGADSQQVNAATEATNATNNQSTQVSQATSQPINFQVQK


SEQ 3:    DGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWKEYKFYNANNQELATTVVNDNK
SEQ 4:    DGSSEKSHMDDYMQHPGKVIKQNNKYYFQAVLNNASFWKEYKFYNANNQELATTVVNDDK
SEQ 5:    DGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWKEYKFYNANNQELATTVVNDNK
SEQ 6:    DGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWKEYKFYNANNQELATTVVNDNK
SEQ 7:    DGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWKEYKFYNANNQELATTVVNDNK
SEQ 8:    DGSSEKSHMDDYMQHPGKVIKQNNKYYFQAVLNNASFWKEYKFYNANNQELATTVVNDDK
SEQ 9:    DGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWKEYKFYNANNQELATTVVNDNK


SEQ 3:    KADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAKPNNVKPV
SEQ 4:    KADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAKPNNVKPV
SEQ 5:    KADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAKPNNVKPV
SEQ 6:    KADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAKPNNVKPV
SEQ 7:    KADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAKPNNVKPV
SEQ 9:    KADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAKPNNVKPV


SEQ 3:    QPKPAQPKTPTEQTKPVQPKVEKVKPTVTTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV
SEQ 4:    QPKPAQPKTPTEQTKPVQPKVEKVKPAVTAPSKNENRQTTKVVSSEATKDQSQTQSARTV
SEQ 5:    QPKPAQPKTPTEQTKPVQPKVEKVKPTVTTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV
SEQ 6:    QPKPAQPKTPTEQTKPVQPKVEKVKPTVTTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV
SEQ 7:    QPKPAQPKTPTEQTKPVQPKVEKVKPTVTTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV
SEQ 8:    QPKPAQPKTPTEQTKPVQPKVEKVKPAVTAPSKNENRQTTKVVSSEATKDQSQTQSARTV
SEQ 9:    QPKPAQPKTPTEQTKPVQPKVEKVKPTVTTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV


SEQ 3:    KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQA----SKAK
SEQ 4:    KTTQTAQDQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKQNEVHKQGPSKDSKAK
SEQ 5:    KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKQNEVHKQGPSKDSKAK
SEQ 6:    KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQA----SKAK
SEQ 7:    KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQA----SKAK
SEQ 8:    KTTQTAQDQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKQNEVHKQGPSKDSKAK
SEQ 9:    KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQA----SKAK


SEQ 3:    ELPKT---------------------------------------------
SEQ 4:    ELPKT---------------------------------------------
SEQ 5:    ELPKTLEHHHHHH-------------------------------------
SEQ 6:    ELPKTGLTSVDNFISTVAFATLALLGSLSLLLFKRKESK--------
SEQ 7:    ELPKTGLTSVDNFISTVAFATLALLGSLSLLLFKRKESK--------
SEQ 8:    ELPKTGLTSVDNFISTVAFATLALLGSLSLLLFKRKESK--------
SEQ 9:    ELPKTGLTSVDNFISTVAFATLALLGSLSLLLFKRKESKLEHHHHHH
```

FIG. 3

ATGGGCAGCAGCCATCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATATGGGC**ACACAAGTT**
TCTCAAGCAACATCACAACCAATTAATTTCCAAGTGCAAAAAGATGGCTCTTCAGAGAAGTCACACATGGATGAC
TATATGCAACACCCTGGTAAAGTAATTAAACAAAATAATAAATATTATTTCCAAACCGTGTTAAACAATGCATCA
TTCTGGAAAGAATACAAATTTTACAATGCAAACAATCAAGAATTAGCAACAACTGTTGTTAACGATAATAAAAAA
GCGGATACTAGAACAATCAATGTTGCAGTTGAACCTGGATATAAGAGCTTAACTACTAAAGTACATATTGTCGTG
CCACAAATTAATTACAATCATAGATATACTACGCATTTGGAATTTGAAAAAGCAATTCCTACATTAGCTGACGCA
GCAAAACCAAACAATGTTAAACCGGTTCAACCAAAACCAGCTCAACCTAAAACACCTACTGAGCAAACTAAACCA
GTTCAACCTAAAGTTGAAAAAGTTAAACCTACTGTAACTACAACAAGCAAAGTTGAAGACAATCACTCTACTAAA
GTTGTAAGTACTGACACAACAAAAGATCAAACTAAAACACAAACTGCTCATACAGTTAAAACAGCACAAACTGCT
CAAGAACAAAATAAAGTTCAAACACCTGTTAAAGATGTTGCAACAGCGAAATCTGAAAGCAACAATCAAGCTGTA
AGTGATAATAAATCACAACAAACTAACAAAGTTACAAAACATAACGAAACGCCTAAACAAGCATCTAAAGCTAAA
GAATTACCAAAAACTTGA

FIG. 4

ATGGGCAGCAGCCATCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATATGGGC**ACACAAGTT**
TCTCAAGCAACATCACAACCAATTAATTTCCAAGTGCAAAAAGATGGCTCTTCAGAGAAGTCACACATGGATGAC
TATATGCAACACCCTGGTAAAGTGATTAAACAAAATAATAAATATTATTTCCAAGCTGTÀTTGAACAACGCATCA
TTCTGGAAAGAATACAAATTTTACAATGCAAACAATCAAGAATTAGCAACAACTGTTGTTAACGATGATAAAAAA
GCTGACACTAGAACAATCAATGTTGCTGTTGAACCTGGGTATAAGAGTTTAACTACAAAAGTACATATTGTCGTG
CCACAAATTAATTATAATCATAGATATACTACGCATTTAGAATTTGAAAAAGCAATTCCTACATTAGCTGACGCA
GCAAAACCAAACAATGTTAAACCGGTTCAACCAAAACCTGCTCAACCTAAAACACCTACTGAGCAAACGAAACCA
GTTCAACCTAAAGTTGAAAAAGTTAAACCTGCTGTAACTGCACCAAGCAAAAATGAAAACAGACAAACTACAAAA
GTTGTAAGTAGTGAAGCTACAAAAGATCAAAGTCAAACACAAAGTGCTCGTACAGTGAAAACAACACAAACAGCT
CAAGATCAAAATAAAGTTCAAACACCTGTTAAAGATGTTGCAACAGCGAAATCTGAAAGCAACAATCAAGCTGTA
AGTGACAATAAATCACAACAAACTAACAAAGTTACAAAACAAAACGAAGTTCATAAACAAGGACCTTCAAAAGAT
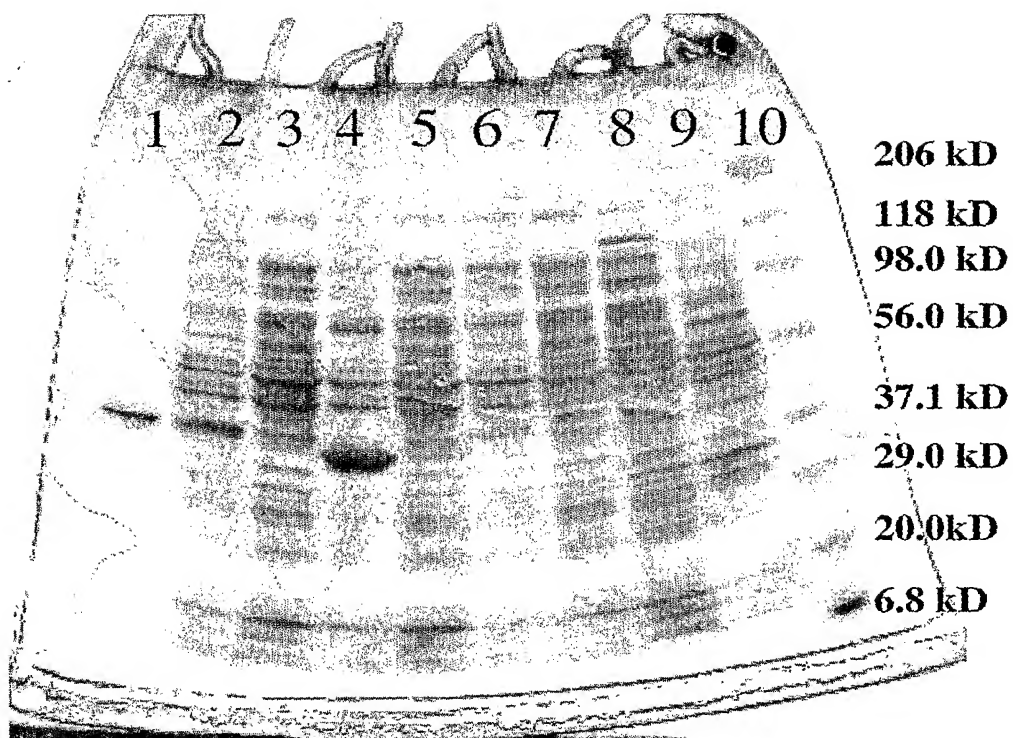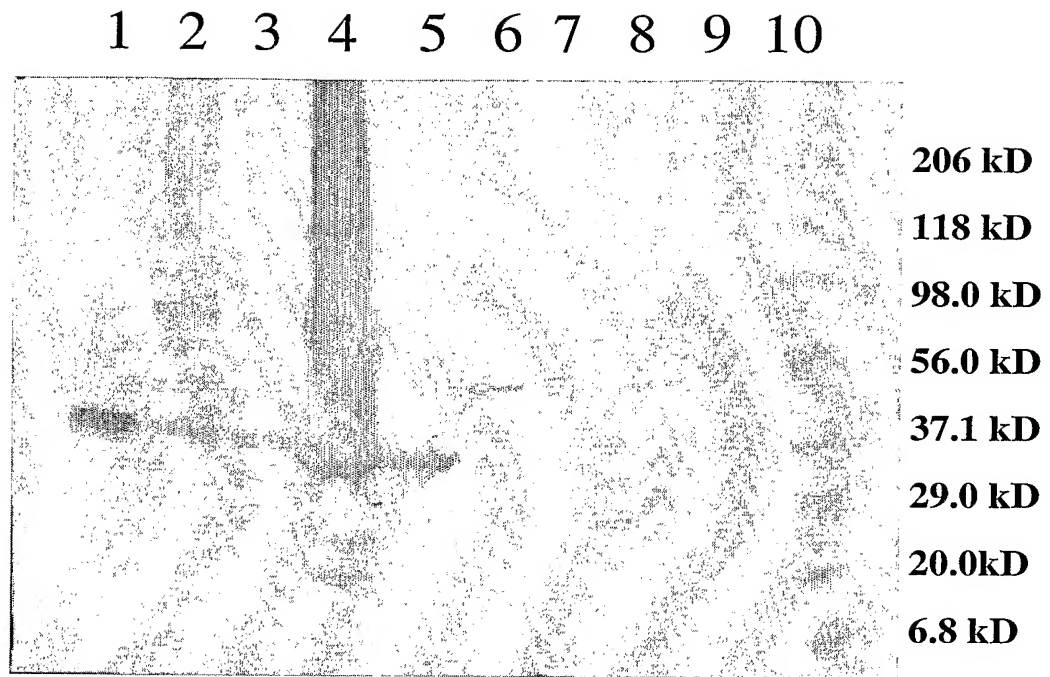**TCTAAAGCTAAAGAATTACCAAAAACTT**GA
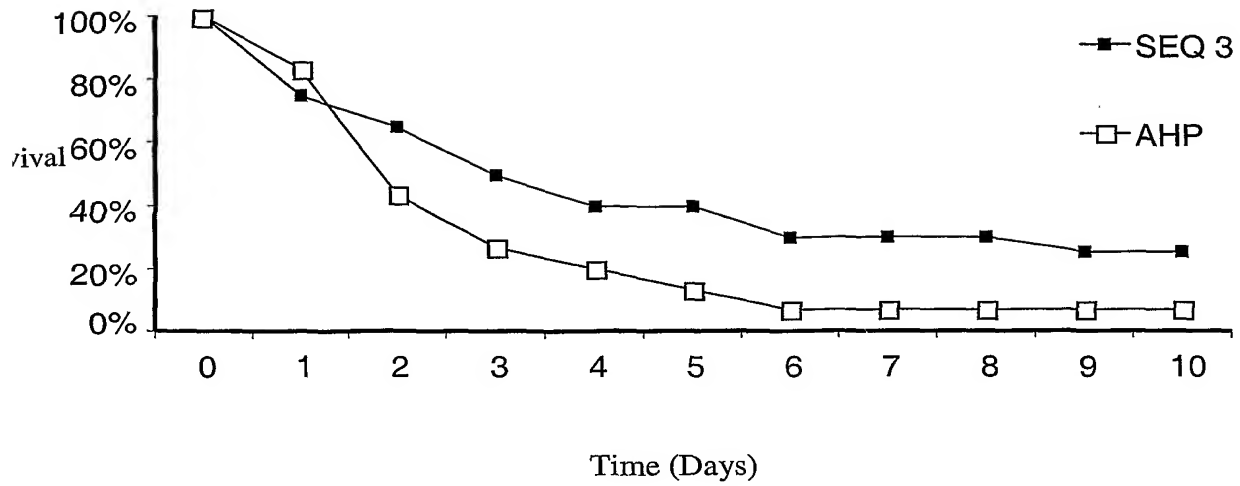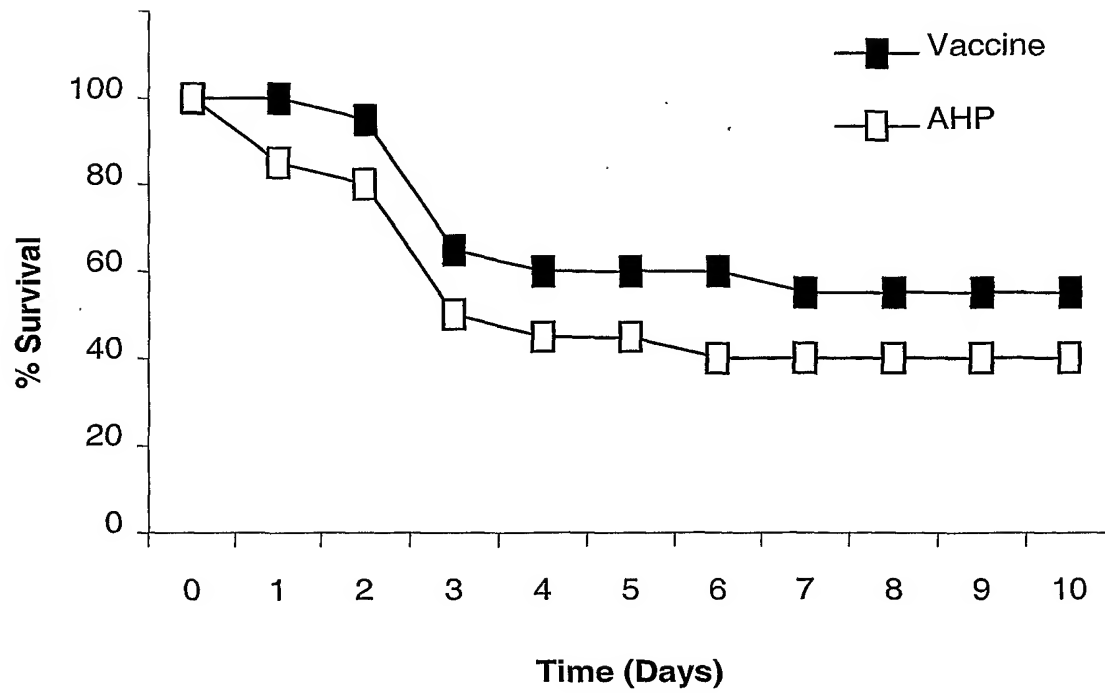
FIG. 5

FIG. 6A

FIG. 6B

FIG. 7A

FIG. 7B